

CLAIMS

1. A rubber composition for a tread characterized by compound-
ing (a) 5-40 parts by mass of a softening agent including an oil in
which an extraction quantity with dimethylsulfoxide (DMSO) by IP346
5 process is controlled to less than 3% by mass and (b) 5-40 parts by
mass of a liquid polymer having a viscosity average molecular weight
of 45,000-100,000 based on 100 parts by mass of a rubber component.
2. A rubber composition for a tread according to claim 1,
wherein the viscosity average molecular weight of the liquid polymer
10 is 55,000-85,000.
3. A rubber composition for a tread according to claim 1 or 2,
wherein the liquid polymer is a liquid styrene-butadiene copolymer.
4. A rubber composition for a tread according to claim 1,
wherein the oil is at least one process oil selected from the group
15 consisting of T-DAE and MES.
5. A rubber composition for a tread according to claim 1,
wherein the softening agent (a) further contains a hydrogenated
naphthenic oil.
6. A rubber composition for a tread according to claim 5,
20 wherein the hydrogenated naphthenic oil is obtained by hydrogenating
a naphthenic oil in which a content of naphthenic hydrocarbon (%C_N)
measured according to ASTM D2140 is not less than 30.
7. A rubber composition for a tread according to claim 5 or 6,
wherein the softening agent (a) further contains asphalt having a
25 dynamic viscosity at 120°C of not more than 300 mm²/sec and an
asphaltene content of not more than 5% by mass at a mass ratio of
hydrogenated naphthenic oil/asphalt of 95/5-5/95.
8. A tire characterized by using a rubber composition as claimed
in any one of claims 1 to 7 in a tread.